



Missouri Department of Natural Resources

Total Maximum Daily Load Information Sheet

North Fabius River

Water Body Segment at a Glance:

County: Marion
Nearby Cities: Taylor, Maywood
Length of impairment: 82 miles
Pollutant: Manganese
Source: Natural

Note: This lake was deleted from the 2004/2006 303(d) List because the criterion for manganese has been removed from Missouri's Water Quality Standards



State map showing location of watershed

Water Body Removed from List: Jan. 16, 2009

Description of the Problem

Beneficial uses of North Fabius River

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)
- Irrigation
- Drinking Water Supply
- Whole Body Contact Recreation – Category B
- Secondary Contact Recreation

Use that was listed as impaired

- Drinking Water Supply

Standards that apply

There is **no longer** a criterion in the Missouri Water Quality Standards (10 CSR 20-7.031) for manganese. The standard used to be 50 µg/L as the maximum amount of manganese allowed for Drinking Water Supplies. This was an aesthetic standard that sought to protect a water supply against possible taste, odor and laundry staining problems caused by excessive amounts of manganese. Exceedence of that standard was not a threat to human health.

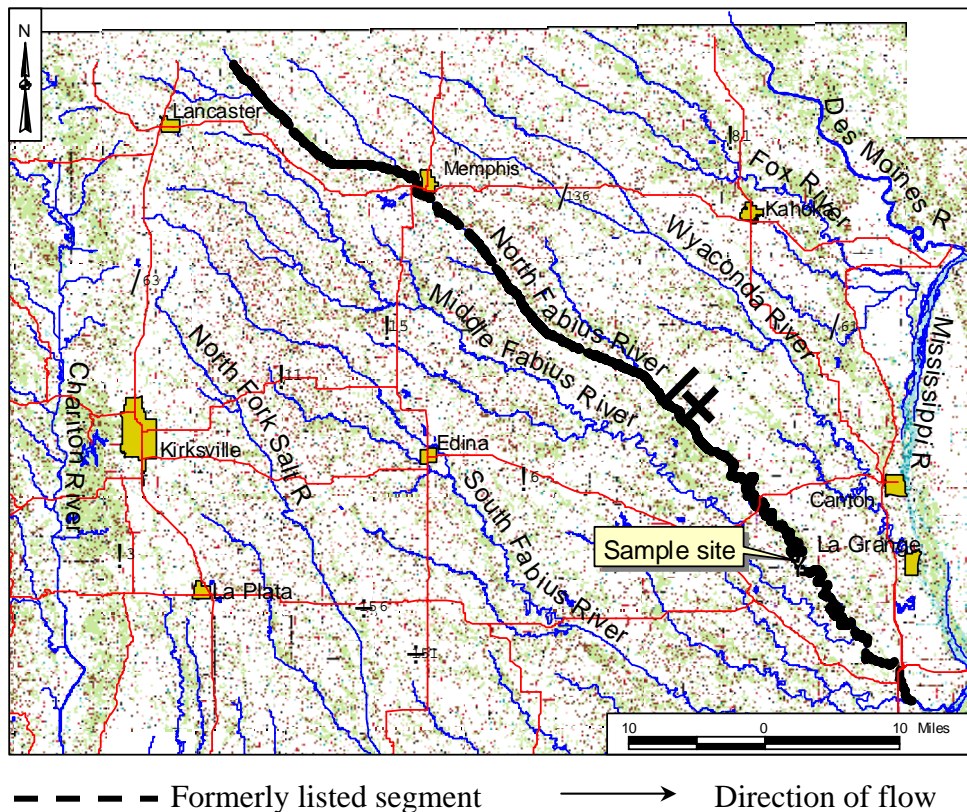
Background Information

Monitoring of the North Fabius River near Ewing, Missouri, from 2000 through 2002 has shown an average level of dissolved manganese of 92 µg/L (micrograms per liter or parts per billion). There

are no known significant man-made sources of manganese in this watershed. The source of the manganese is believed to be natural weathering and erosion of earth materials (soils and sub-soils) in this watershed. Several other streams in Northeastern Missouri also have elevated levels of dissolved manganese.

Manganese does not present any human health hazards, but can be responsible for offensive taste and appearance in drinking water, if it is present. However, drinking water supplies can remove manganese if necessary in the finished water sold to customers. The Missouri Clean Water Commission voted to remove manganese and iron from the list of impairments to drinking water sources since they do not cause health problems, do not adversely affect aquatic life and can be removed by drinking water treatment facilities. That action took effect Dec. 31, 2005 and the U.S. Environmental Protection Agency removed this river from the 2004/2006 303(d) List Jan. 16, 2009.

**Formerly Listed Segment of North Fabius River in Marion County, Missouri,
Showing Sampling Site**



For more information call or write:

Missouri Department of Natural Resources

Water Protection Program

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